

Master in Artificial Intelligence



Research and Innovation I





Purpose

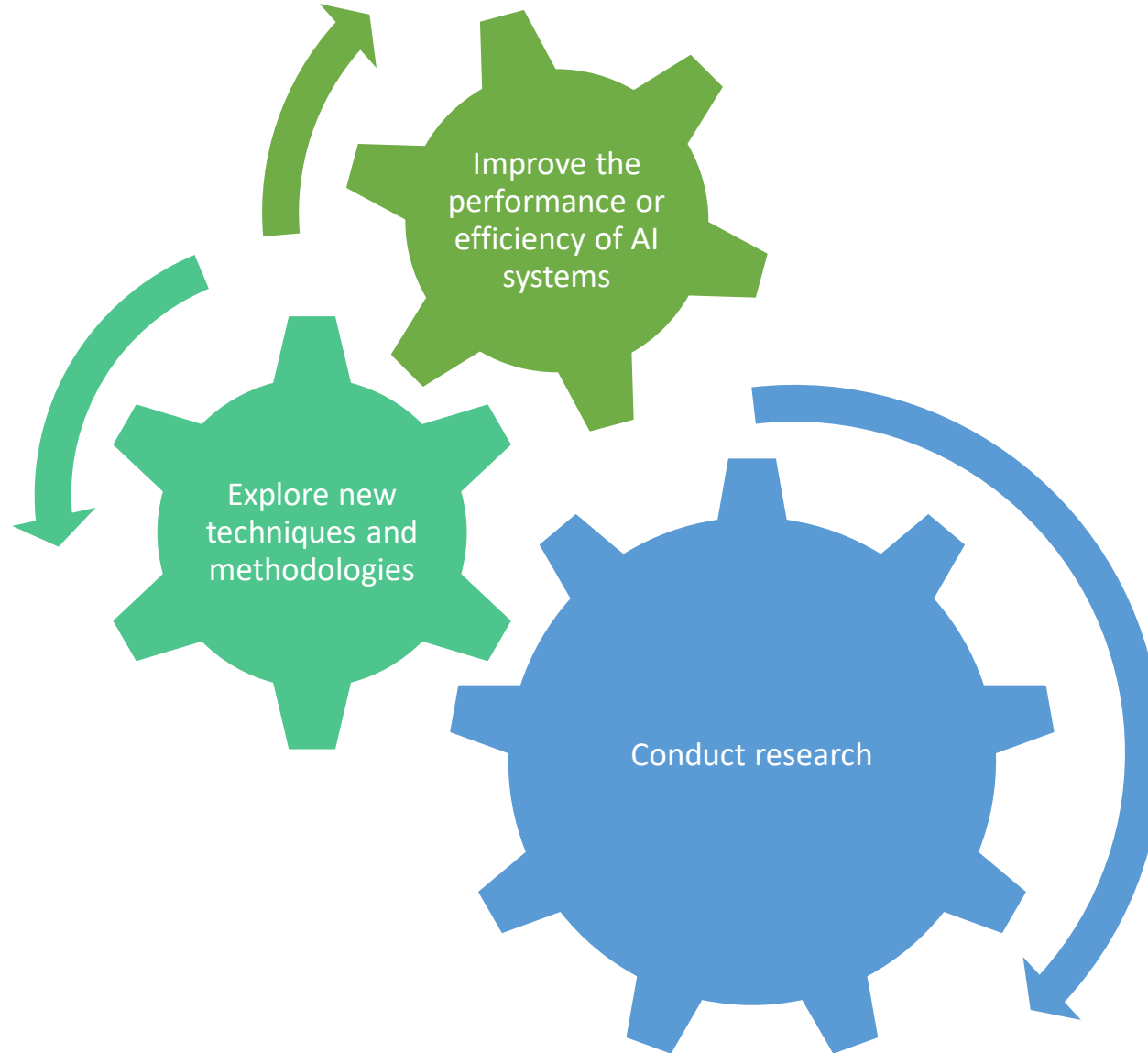
The purpose of the section is to help you learn how to stay updated with the latest advancements in artificial intelligence and machine learning to become a Successful Artificial Intelligence (AI) Engineer

At the end of this lecture, you will learn the following

- **How to conduct research to explore new techniques and methodologies that could improve the performance or efficiency of AI systems**



Research and Innovation



Define Research Objectives



Literature Review

Understand

Existing techniques

Methodologie

Recent advancements in AI research

Identify

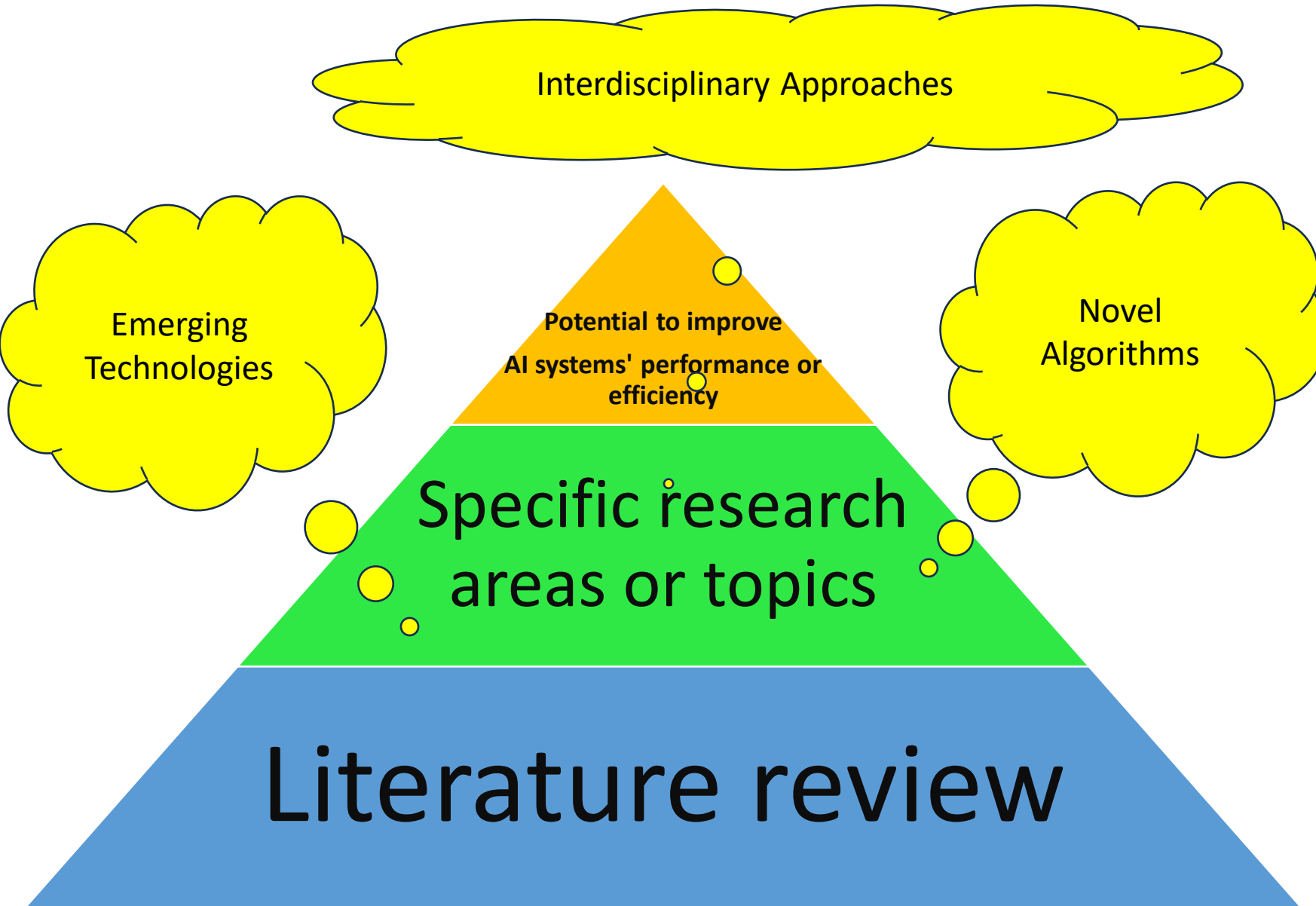
Gaps

Limitations

Areas for improvement in current approaches



Identify Research Areas



Formulate Hypotheses



Develop hypotheses or research questions that address the identified research areas



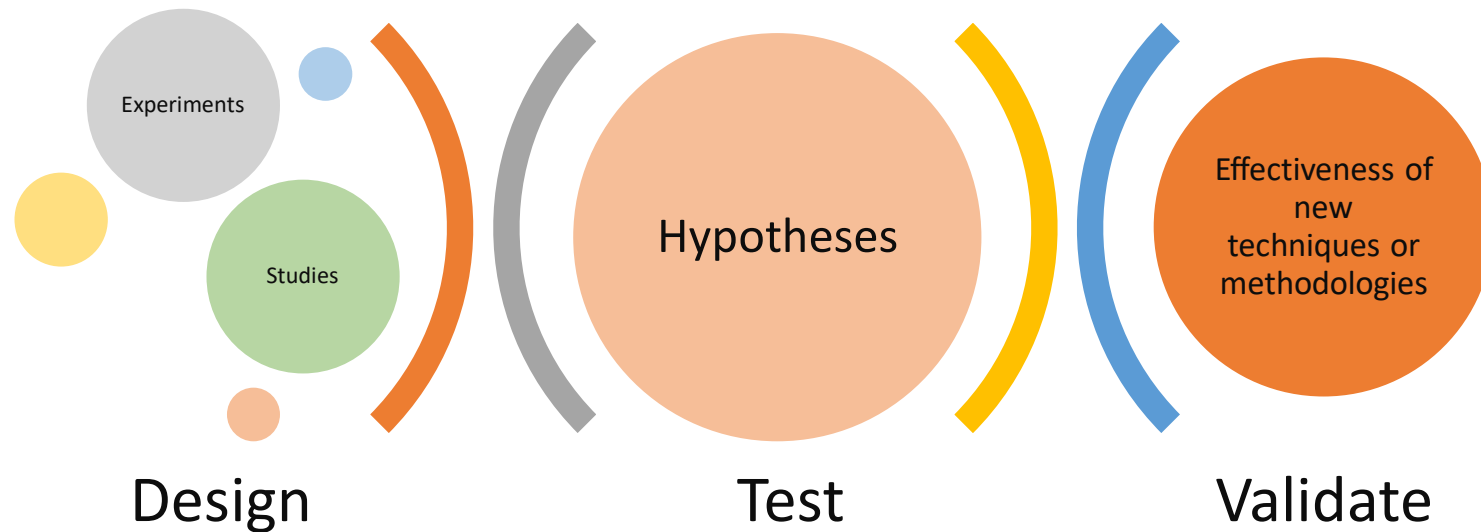
Formulate Hypotheses



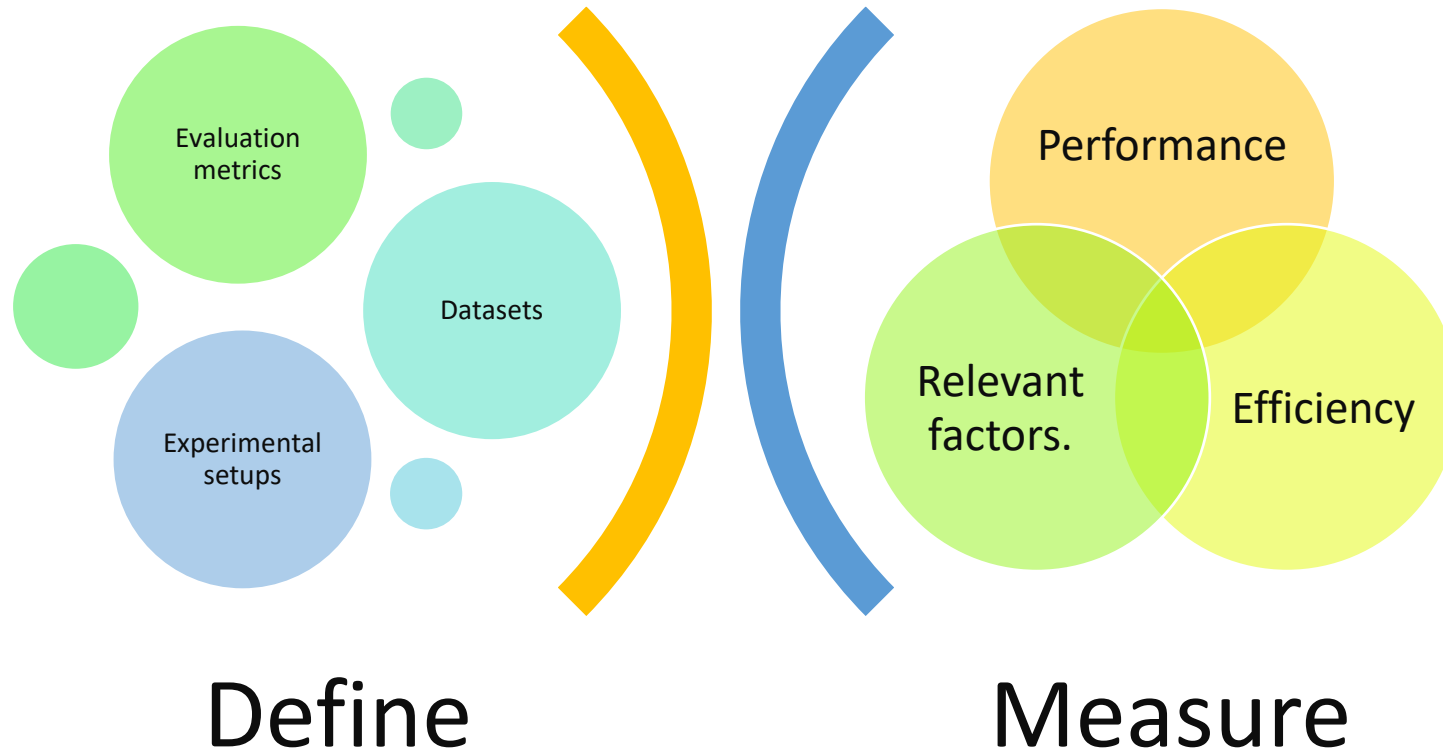
Clearly state expected outcomes or benefits of exploring new techniques or methodologies



Experimental Design



Experimental Design



Implementation and Prototyping



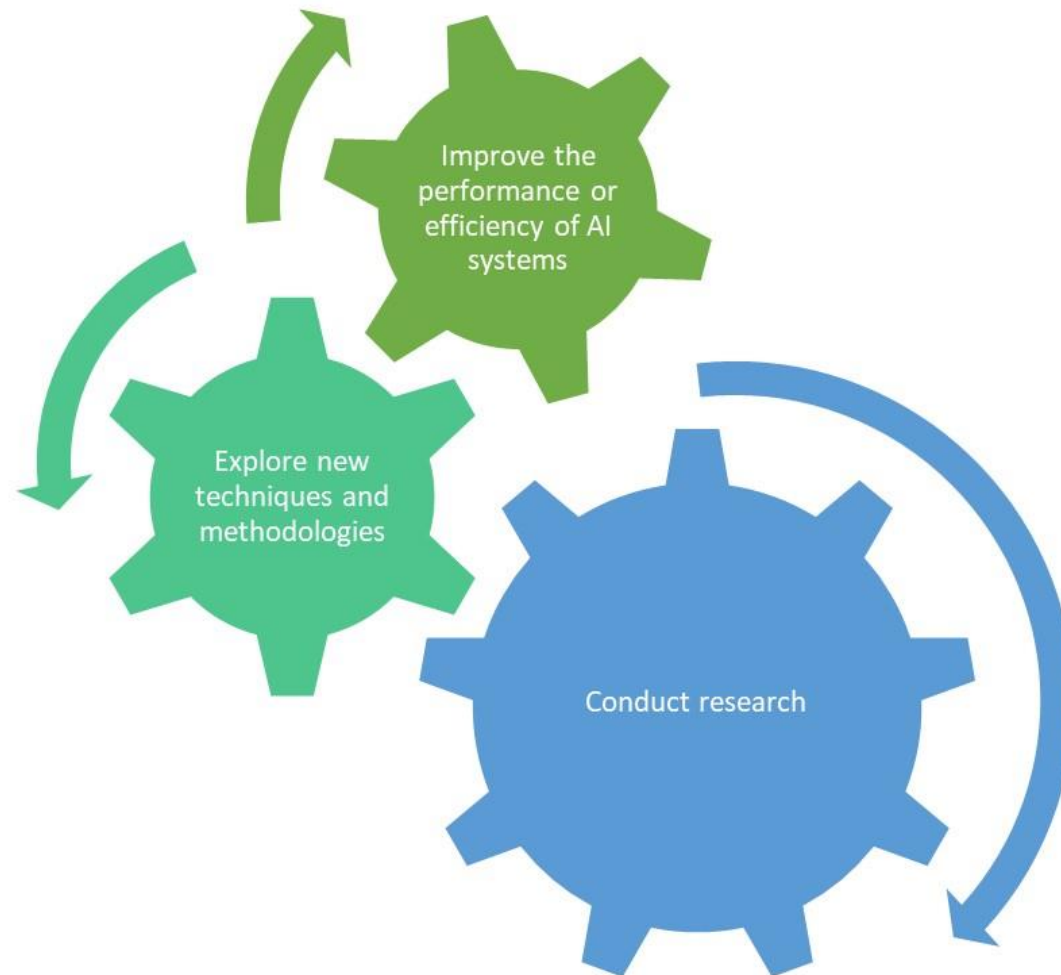
Implementation and Prototyping

Leverage open-source libraries, frameworks, or tools to facilitate experimentation and prototyping



What is next?

Research and Innovation



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*Thank
you*



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